



Yankee Atomic Electric Company LTP Submittal Overview

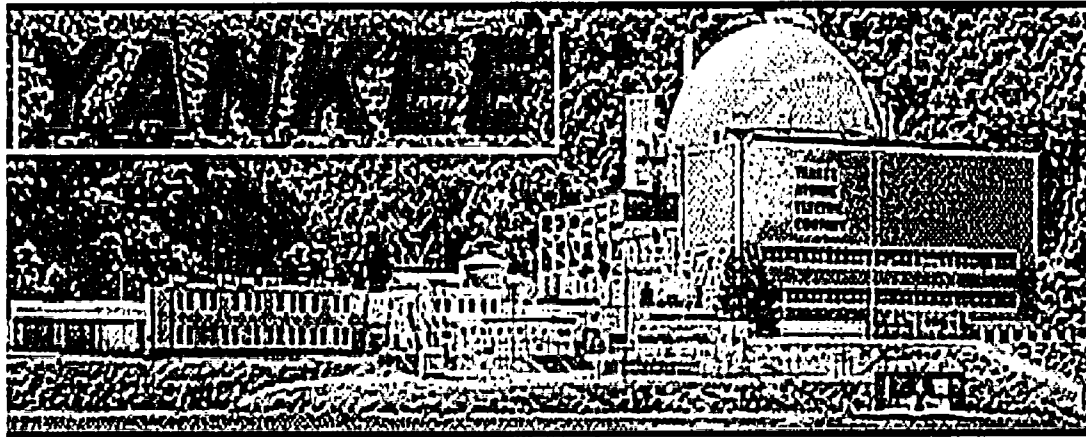
Meeting with USNRC

April 6, 2004

Discussion Topics

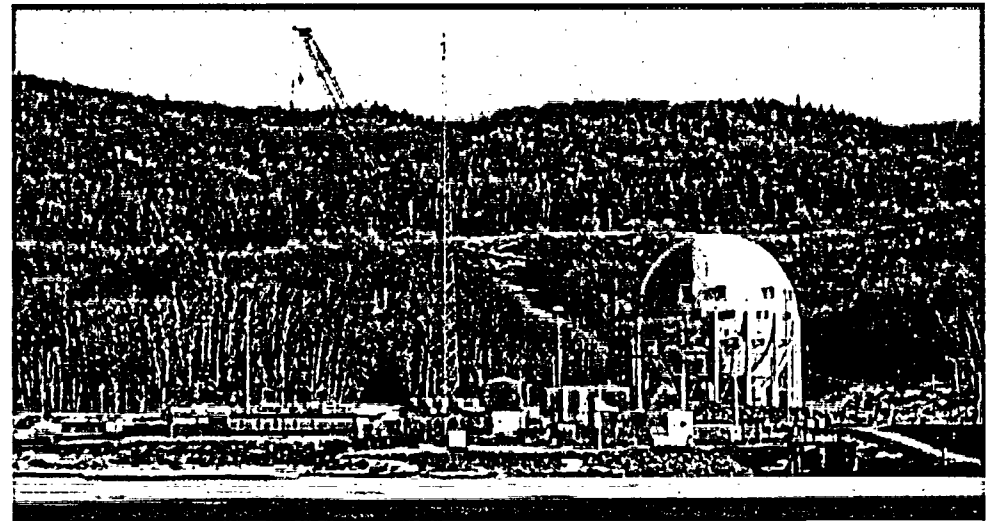
- Update of Decommissioning Progress
- LTP-Related Submittals
- Hydrogeologic Report
- Related Activities – 2004
- Future Communications with NRC

Update of Decommissioning Progress



During
Operations

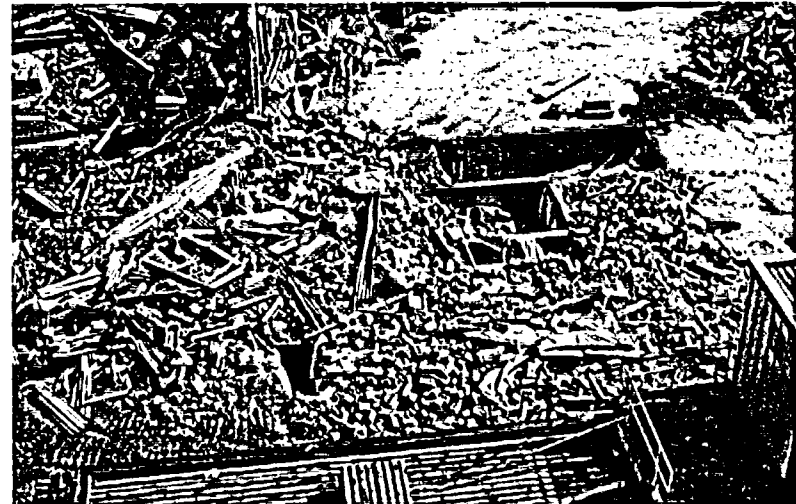
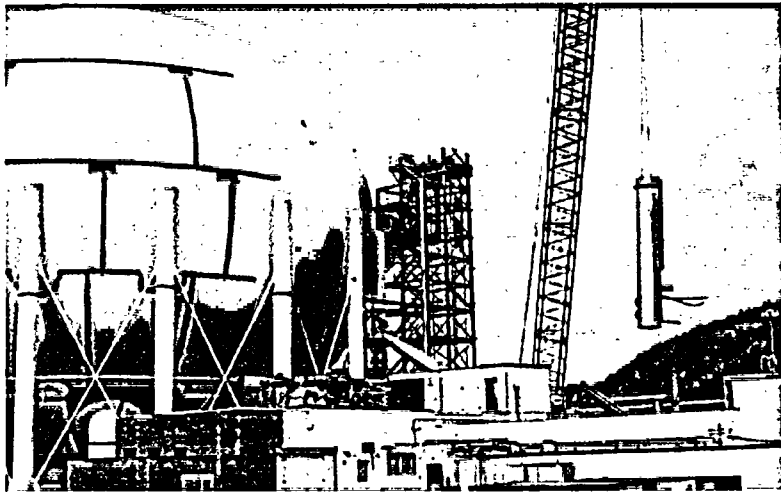
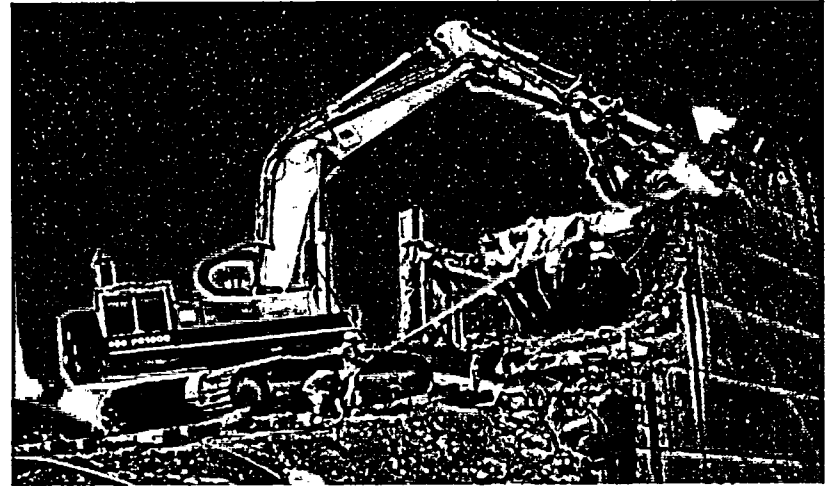
Currently



Update of Decommissioning Progress

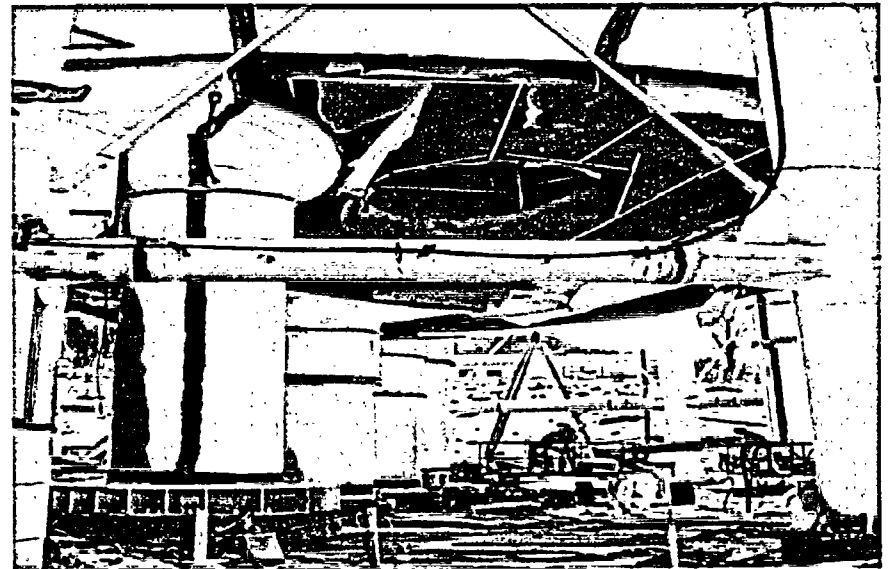
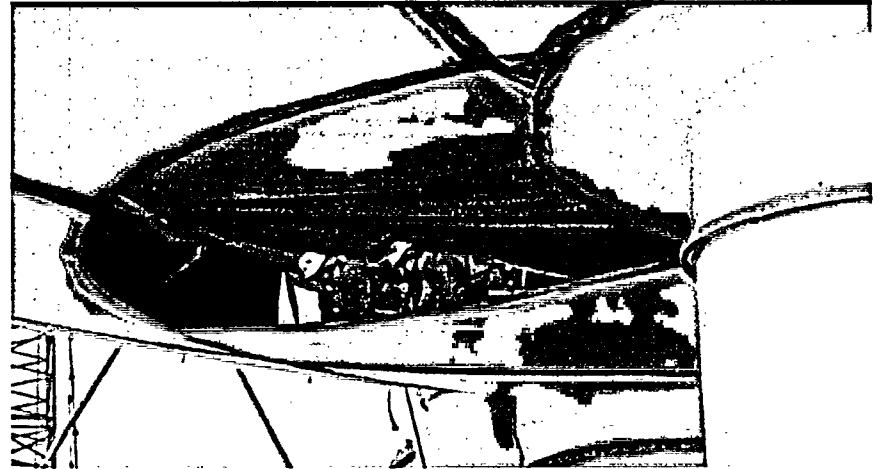
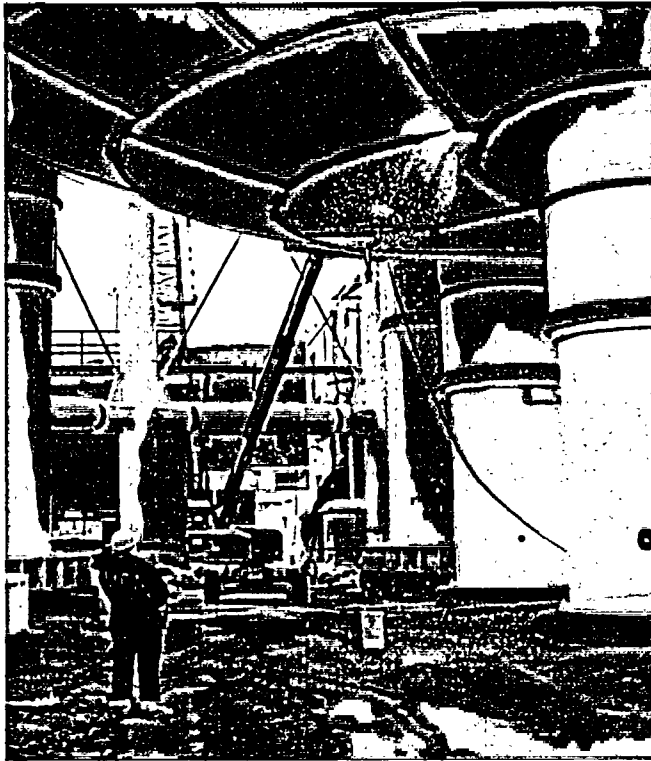
■ Building Demolition

- Turbine Building Monolith
- Waste Warehouse
- Safe Shutdown Building
- Fuel Transfer Enclosure
- Plant Vent Stack

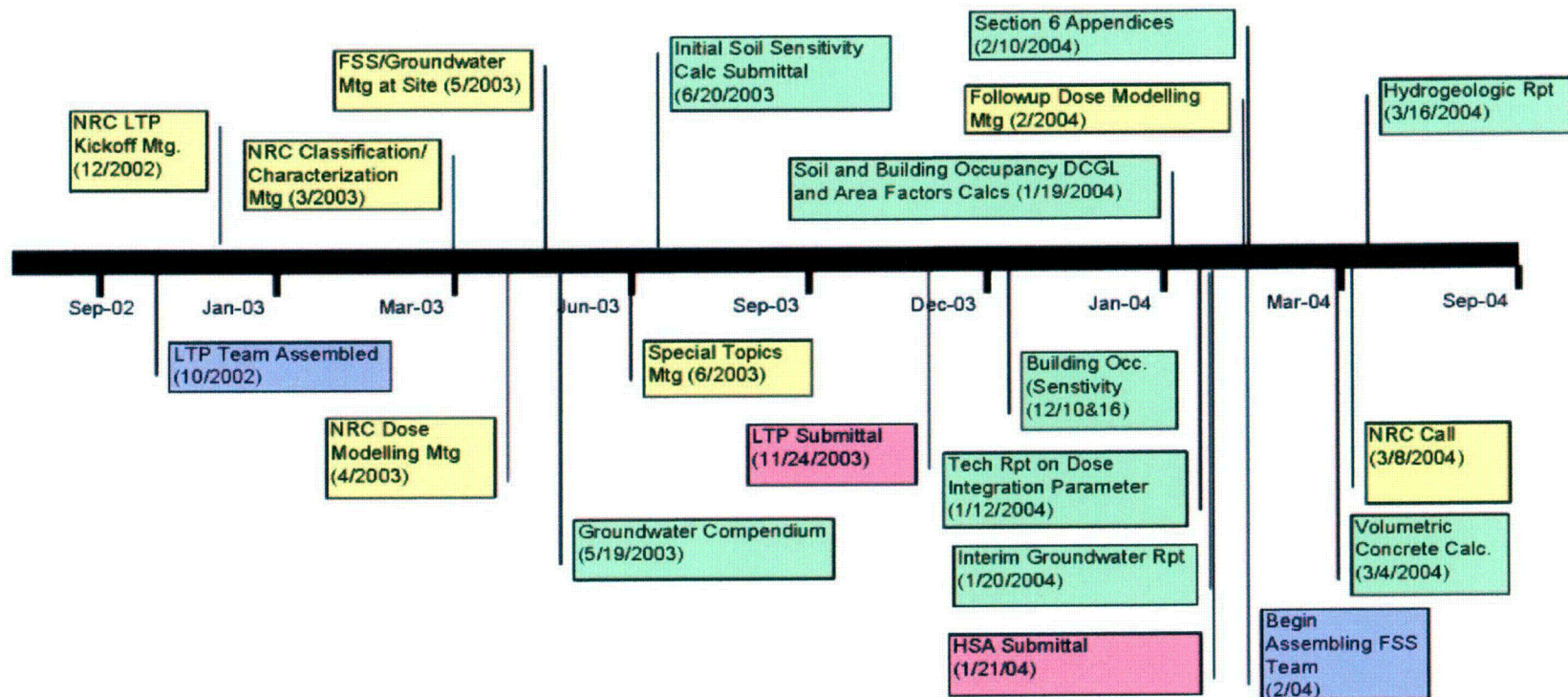


Update of Decommissioning Activities

- Cutting of the Metal Vapor Container



Timeline of LTP Activities



License Termination Plan

- General Information
 - Summary of Historical Site Assessment
 - Identification of survey areas
 - Initial classification of survey areas
 - Radionuclides of interest
 - Known groundwater information
 - Areas of additional investigation
 - Subsurface areas
 - Groundwater
 - Remaining Decommissioning Activities and Remediation Plans
-

License Termination Plan (Con't)

- Dose Modeling Methodology
 - Criteria, scenarios, and codes used
 - Calculations sent separately
 - Input/output details provided in appendices
 - Final Status Survey Methodology
 - Follows MARSSIM
 - Groundwater and subsurface considerations
 - Financial Information
 - Supplement to the Environmental Report
-

Dose Modeling Calculations

- Calculations provided:
 - For soil and building surfaces:
 - Parameter sensitivity
 - Parameter values
 - DCGLs
 - Area Factors
 - For concrete:
 - Correlate residual radioactivity and dose
 - Establish DCGL corresponding to 0.5 mrem/yr
- LTP Section 6 Appendices Summarize Information from Calcs (Inputs and Results) for Soil and Building Surfaces

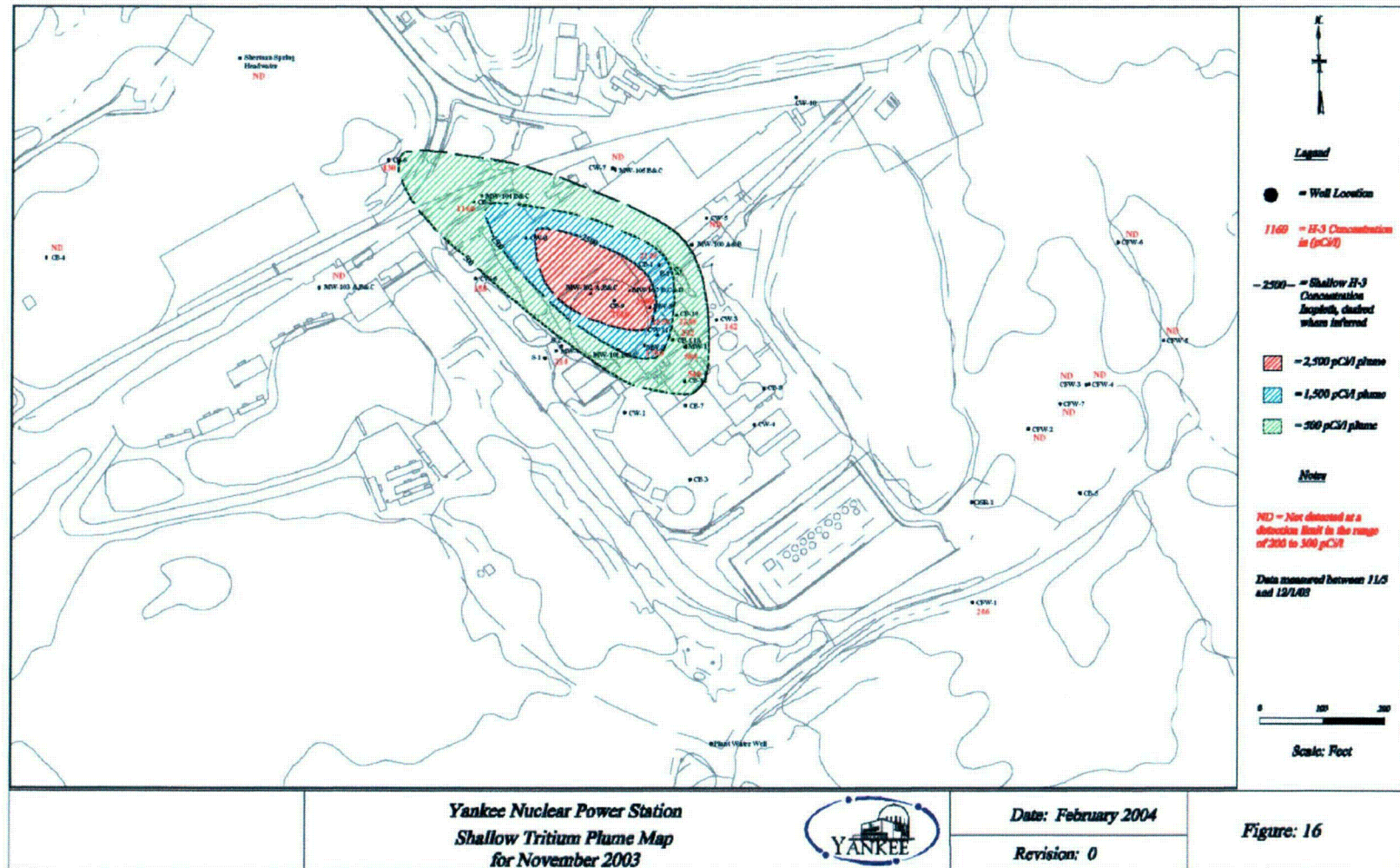
Historical Site Assessment

- Basis Document for Site Characterization and Survey Area Classification
 - Describes:
 - Operational history and impacts
 - Events and spills
 - Potential for subsurface contamination
 - Past remediation efforts
 - Underground systems
 - Summarizes:
 - Historical sample data
 - Statistics on open land area data (SOF, mean, median, std dev)
 - Includes CD with Scanned References (Organized by Survey Area)
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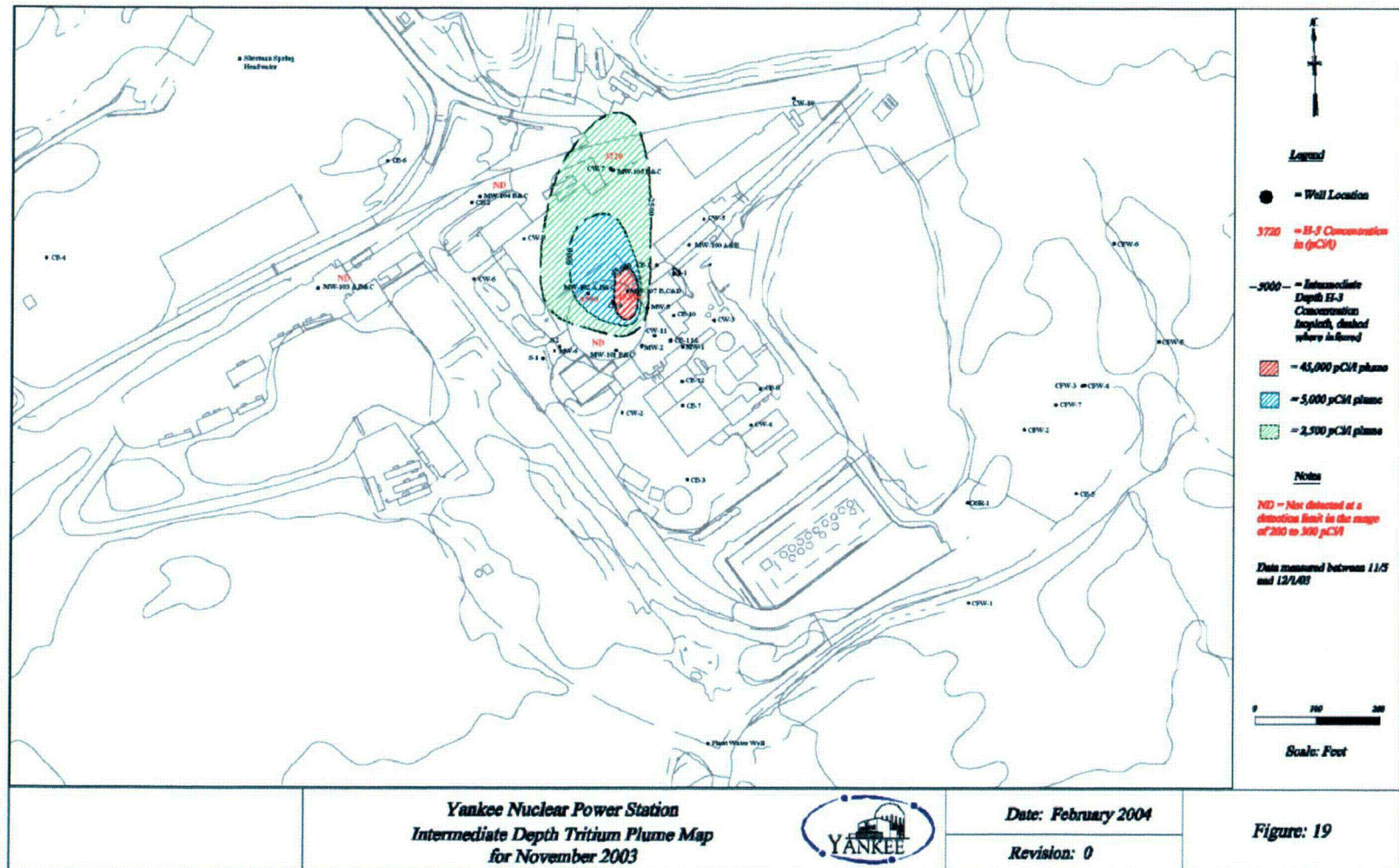
Hydrogeologic Report of 2003 Supplemental Investigation

- Supplements “3rd Quarter Interim Groundwater Report”
 - Summarizes Well Drilling Methods and Construction
 - Identifies Local Stratigraphy
 - Discusses Hydraulic Gradient and Groundwater Flow
 - Identifies Sample Analyses Performed
 - Gamma spec
 - Tritium and gross alpha/beta
 - Hard-to-detects (including transuranics)
 - Discusses Sample Analyses Results
 - Tritium only plant-related radionuclides identified
 - Provides Updated Tritium Plume Maps
 - Describes Three-Dimensional Investigation
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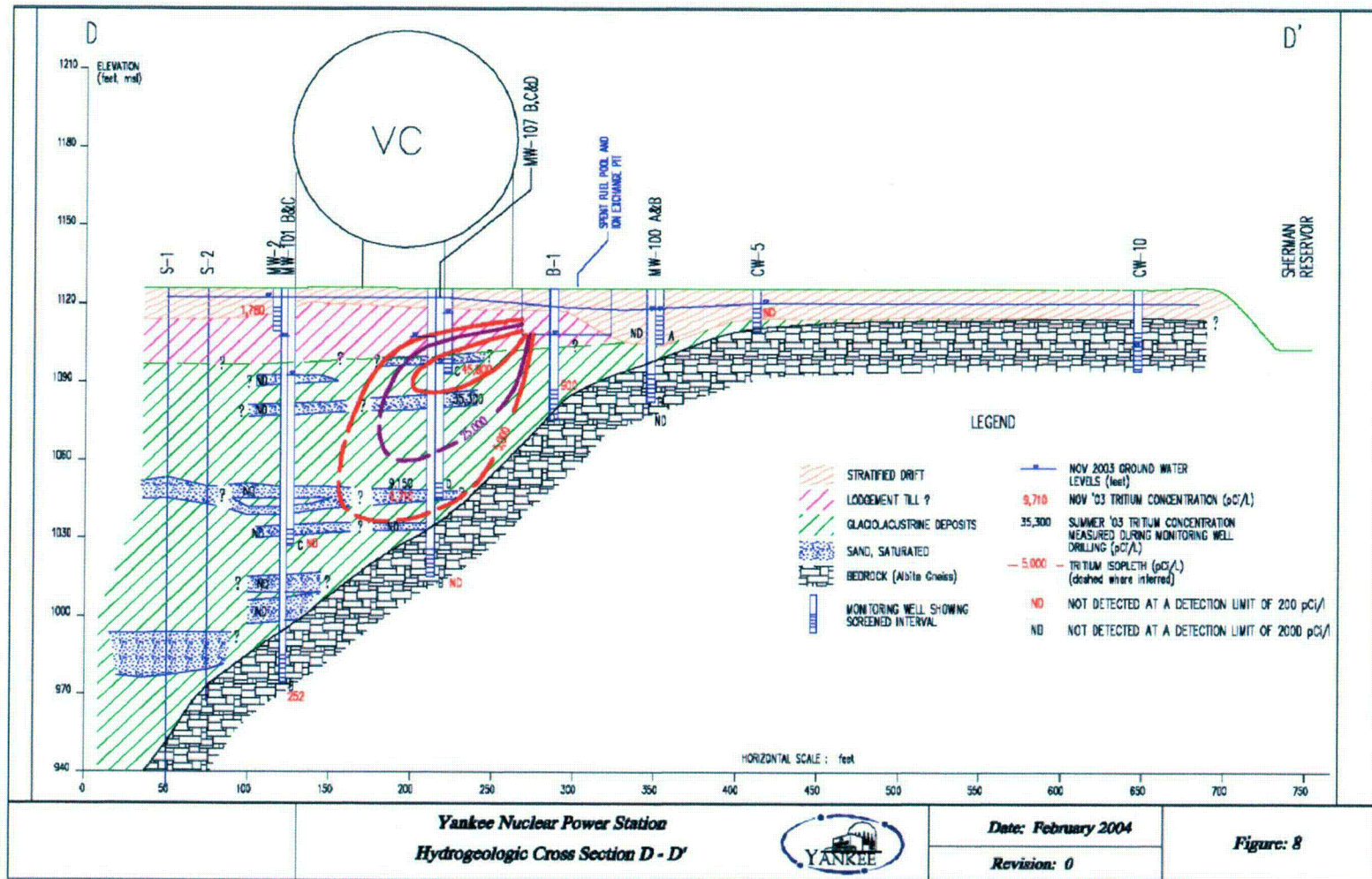
Shallow Tritium Plume (Nov. 2003)



Intermediate Tritium Plume (Nov. 2003)



Three-Dimensional Investigation



Related Activities - 2004

- FSS Activities

- Assembling FSS staff
- Developing FSS plans and procedures
- Considering methodology to survey excavations

- Site Closure Project Plan

- PCB Remediation of Sherman Reservoir

- Continued Stakeholder and Community Outreach

Future Communications with NRC

- Regular Meetings
- Periodic Calls
- Early Identification of Concerns
- Path to Close Issues Before RAI Issuance